

Marine Life Protection Act Initiative



Information Available for MPA Planning in the South Coast Study Region


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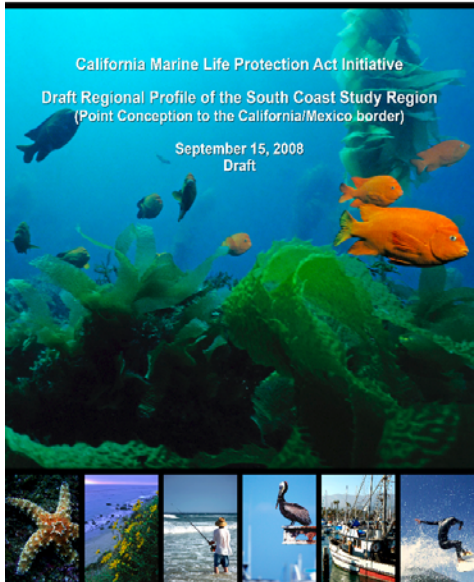
Information for MPA Planning


- Regional profile for the south coast study region
- MarineMap / decision support system
- Information generated during the joint fact-finding process



Regional Profile: Purpose

- Provide background information for MPA planning
- Integrate best readily available science
- Initiate joint fact-finding process





Regional Profile: Components

- Main Document
 - Executive summary and 11 sections
- Appendices
 - Statistics on species, fisheries, and water quality
- Maps
 - Display some spatial data layers
- Web links to other tools, information, and resources



Regional Profile: Table of Contents

Chapter	Section
1	Introduction
2	Description of the South Coast Study Region
3	Ecological Setting
4	Land-Sea Interactions
5	Socioeconomic Setting
6	Academic Institutions, Research, Public Outreach, and Education
7	Jurisdiction and Management
8	Existing MPAs and Coastal Protected Areas
9	Summary by Sub-region
10	Conclusion
11	References



Description of the Study Region

- Point Conception to the California/Mexico border
- Out to three nautical miles offshore
- Includes offshore islands
- Unique intersection of two biogeographic regions





Ecological Setting

Types of Habitat

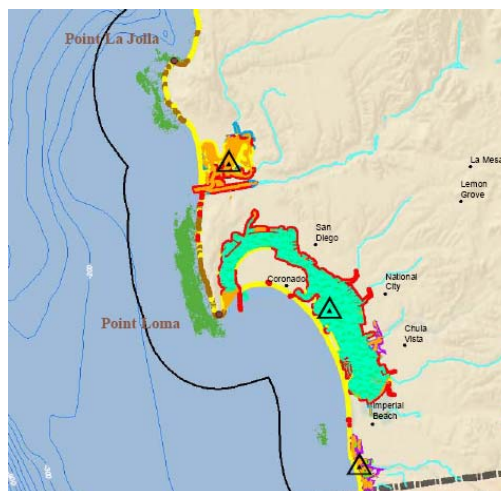
- Intertidal
- Estuaries and lagoons
- Seagrass beds
- Kelp forests
- Hard bottom/Rocky reefs
- Sandy/Soft bottoms
- Underwater pinnacles
- Submarine canyons
- Offshore rocks and islands



Ecological Setting: Example Map

Nearshore Habitats

- Legend**
- South Coast Study Region Boundary
 - △ Habitat Restoration Projects
 - Coastal Rivers
 - 100m Isobaths
 - ×××× Surf Grass
 - Oil seeps
 - Eelgrass
 - Estuaries
 - Kelp Canopy
 - Coastal Marsh
- Shore Types**
- Hardened Shores
 - Beaches
 - Rocky Shores
 - Tidal Flats
 - Coastal Marsh



Map 3.1-1



Ecological Setting

Species of Interest

- Species likely to benefit
- Depleted and overfished species
- Fished species of interest
- Special status species



Photo Credit: Magnus Kjaergaard



Ecological Setting: Example Map

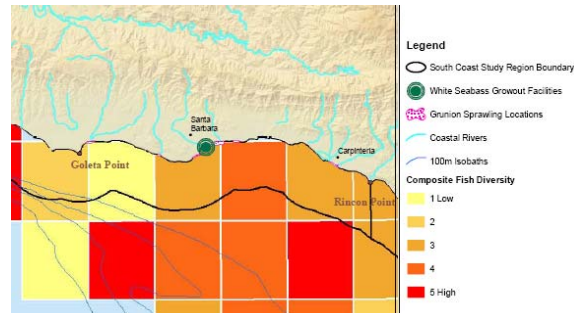
Species of Interest

Seabird Nesting Sites



Map 3.2-1

Composite Fish Diversity



Map 3.2-2

Land-Sea Interactions

Water Quality


- Offshore water quality
- Impaired waterbodies
- Beach closures, postings, and rain advisories
- Sediment quality




Land-Sea Interactions: Example Map

Water Quality

Outfalls and Impaired Water Bodies



Legend

- South Coast Study Region Boundary
- Coastal Rivers
- Impaired Rivers
- Watersheds
- Impaired Water Bodies*
- Areas of Special Biological Significance (ASBS)

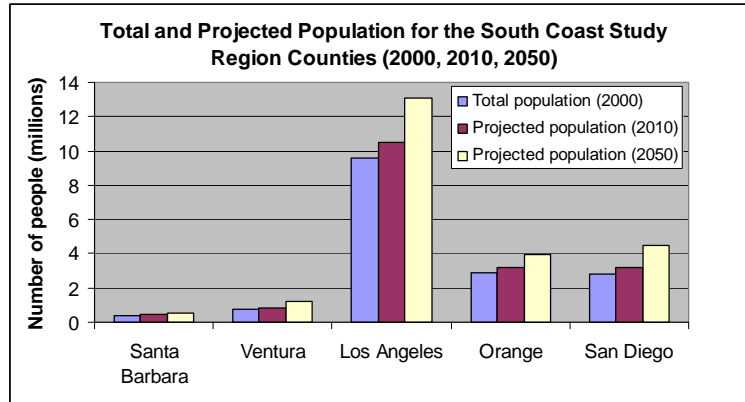
Ocean Outfalls

- aquaculture wastewater
- cooling water
- desalination brine
- desalination brine and cooling water
- marine lab and public aquarium waste seawater
- marine lab waste seawater
- refinery wastewater
- treated sanitary waste from oil platform
- treated sanitary wastewater

Map 4.3-1



Socioeconomic Setting



16.4 Million People in Coastal Counties
(nearly 10 million in Los Angeles County)



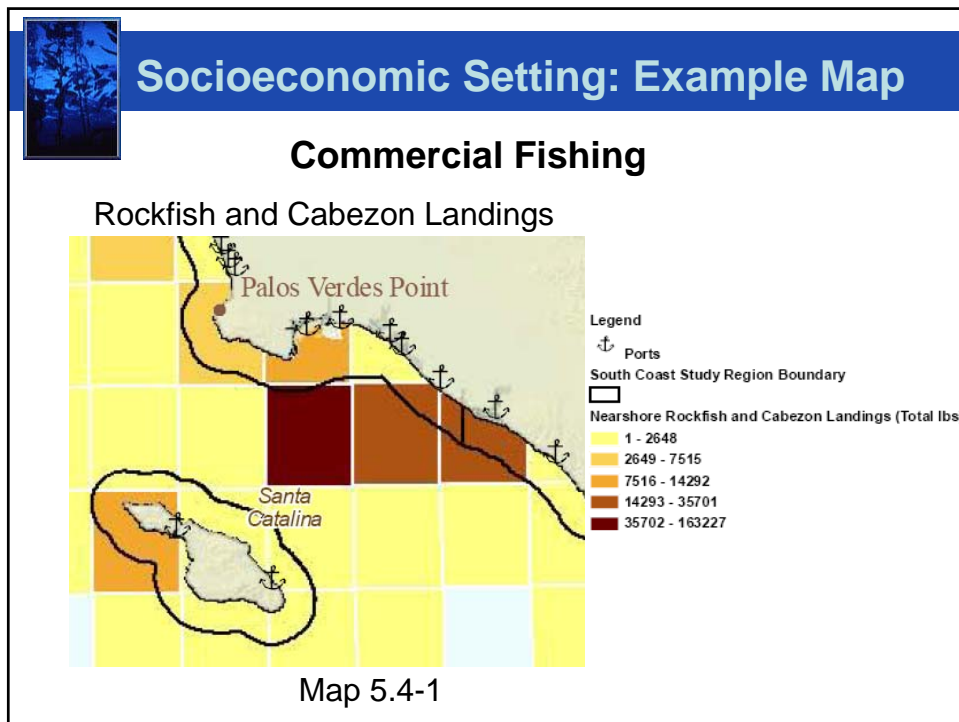
Socioeconomic Setting

Commercial Fishing

Average Annual Value of Landings: \$67,631,631

- Fish
- Invertebrates
- Kelp
- Aquaculture





Socioeconomic Setting

Recreational Fishing

- 155 Species harvested
- Shore, jetties, piers
- Spearfishing
- Party boats, private boats, kayaks
- Numerous marinas and access points



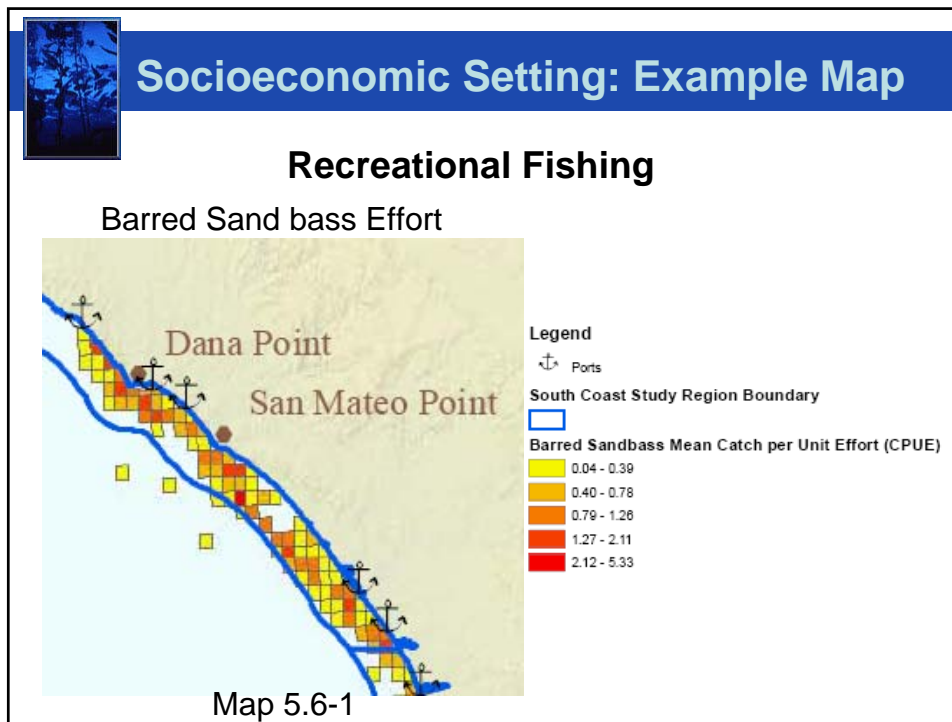


Photo Credit: BlackCloud9






Socioeconomic Setting

Non-consumptive Uses

- Beach-going
- Swimming, surfing
- Kayaking, sailing
- Skin or scuba diving
- Wildlife viewing, photography










Socioeconomic Setting: Example Map

Non-consumptive Uses

Legend

-  Coastal Rivers
-  Ports
-  Piers and Jetties
-  Coastal Access Points
-  Shore Dive Locations



Map 5.6-3



Research, Education, and Outreach

Descriptions and contact information for

- Research Institutions
- Monitoring programs
- Educational organizations
- Public outreach programs



Laura Francis/NOAA



Research, Education, and Outreach

Example Map

Monitoring Sites



Jurisdiction and Management

- Federal agencies
- State agencies
- Local governments
- Native American groups

Example Map

Legend

- South Coast Study Region Boundary
- Existing State Marine Protected Areas
 - Existing State Marine Conservation Area (SMCA)
 - Existing State Marine Park (SMP)
 - Existing State Marine Reserve (SMR - No Take)
 - Existing Special Closure

- 15 SMRs
- 10 SMPs
- 18 SMCAs

Legend

South Coast Study Region Boundary

Existing State Marine Protected Area

- Existing State Marine Conservation Area (SMCA)
- Existing State Marine Park (SMP)
- Existing State Marine Reserve (SMR - No Take)
- Existing Special Closure

Map of the South Coast Study Region showing various management zones and features. The map includes labels for Santa Barbara, Goleta Point, Rincon Point, and Carpinteria. A legend identifies the South Coast Study Region Boundary, Estuaries, Restricted Area or Safety/Security Zone, Aquaculture Leases, Ship Bed Leases, and a CLOSED area.

Legend

- South Coast Study Region Boundary
- Estuaries
- Restricted Area or Safety/Security Zone
- Aquaculture Leases
- Kelp Bed Areas**
 - CLOSED
 - LEASE ONLY
 - LEASEABLE
 - LEASED
 - OPEN
- Marine Managed Areas**
 - Areas of Special Biological Significance
 - City Underwater Park
 - National Ecological Preserve
 - National Monument
 - National Park
 - Channel Islands National Marine Sanctuary
- Terrestrial Managed Areas**
 - Federal
 - State
 - Local
 - NGO

Legend

- South Coast Study Region Boundary
- Intersection of recreational, trail, and non-trail Rockfish Conservation Area
- DCA Transit Corridor
- Channel Islands National Marine Sanctuary
- Cowcod Conservation Area (CCA)
- Habitat Trawl Grounds

The map displays the Santa Barbara Channel with the DCA Transit Corridor highlighted in orange. Key features include the Channel Islands National Marine Sanctuary (light green), the Cowcod Conservation Area (light orange), and Habitat Trawl Grounds (pink). The map also shows the intersection of recreational, trail, and non-trail Rockfish Conservation Areas (yellow). The Santa Barbara Channel is labeled, and the Santa Barbara County boundary is indicated by a black line.

Map 8.2-2



Subregional Summaries

- Localized information for MPA planning
- Opportunity for stakeholders to contribute knowledge
- To be completed over coming months...



Other topics

- Coastal energy projects
- Mariculture
- Navigation and shipping
- Structural alterations to coastal environment
- Artificial reefs, restoration projects



Regional Profile: Appendices

Appendix III (b): Summary of Ventura County Fisheries, 1998-2007

Table III-4: Summary of Ventura County invertebrate fisheries, 1998-2007

Market Category Groupings ¹	Primary Species Targeted	Primary Gear	Number of Fishermen ⁴ 2007 ³	Number of Vessels ² 2007 ³	Average Annual Landings (pound \$)	Average Annual value (\$) ⁵
INVERTEBRATES						
Market Squid	Market squid	Round haul nets, and brail	81	63	66,144,244	\$12,824,706
Sea urchin	Red, purple, and white sea urchins	Hand harvest	49	23	2,217,951	\$1,958,725
Sea cucumber	Warty and giant red sea cucumbers	Hand harvest, and trawl	23	15	310,523	\$339,952
Rock crab	Brown, red, and yellow rock crab	Traps	33	31	173,491	\$251,542
Ridgeback prawn	Ridgeback prawns	Traps	6	5	139,297	\$250,689
Spiny lobster	Spiny lobster	Traps	20	20	85,299	\$764,048
Spot prawn	Spot prawn	Traps	7	6	82,712	\$852,241
Spider crab	Spider crab	Traps	20	21	16,984	\$23,645
Kellett's whelk	Kellett's whelk	Hand harvest	10	10	1,675	\$1,291
Other invert	All invertebrates with small amount of landings		19	22	5,448	\$3,353

Source: Data compiled from the Commercial Fishery Information System data base (extract date: May 2, 2008).

¹ Market Category Groupings are listed in descending order by average annual landings within the county.

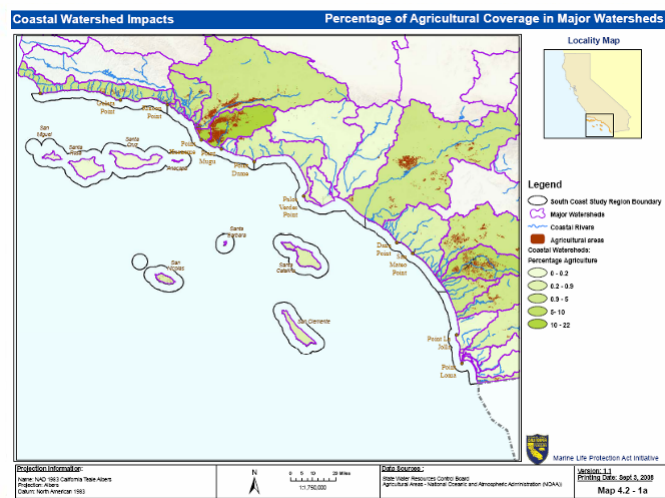
² Average values were calculated by applying an inflationary figure to each of the ten year (1998-2007)

³ Commercial license year from April 1 through March 31 the following calendar year.

⁴ Fishermen and vessels may fish more than one market category grouping.

Regional Profile: Maps

- 109 individual maps
- Study region divided into 7 subregions





Other Sources of Information

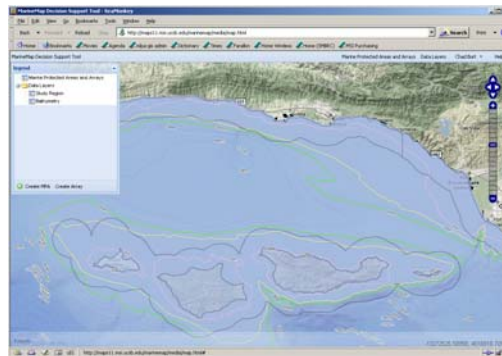
- The regional profile is one source of information
- Links to additional sources of information are included in the profile
- Other tools are available as well...



MarineMap: Decision Support Tool

- View and overlay data layers
- Draw and assemble MPAs
- Enter MPA attributes and information
- Receive feedback on MPA concepts

<http://marinemap.org/marinemap>





Pending Information

- Substrate mapping
 - Hard and soft bottom habitats
- Commercial and recreational fishing information
 - Collected by Ecotrust
- California Ocean Uses Atlas Project
 - Collected by NOAA's MPA Center and Marine Conservation Biology Institute



Joint Fact-Finding Process

What is joint fact-finding?

- Sharing of information to support informed decision-making
- Information may include
 - Peer reviewed studies
 - Field knowledge from scientists
 - First-hand knowledge from resource users
- Stakeholders help identify information needs/questions



Joint Fact-Finding Process

Why is it important?

- MLPA Initiative process relies on the best readily available scientific information

What does it involve?

- Stakeholders, science advisory team members, and staff will work together to contribute knowledge and information to the process



Joint Fact-Finding Process

- Review of the regional profile is the first opportunity for regional stakeholder group member contributions to the joint fact-finding process
 - Review, comment, and make corrections
 - Subregional summaries
 - Contribution of additional datasets
- Science advisory team will also have opportunity to review and contribute to the regional profile



Joint Fact-Finding Process

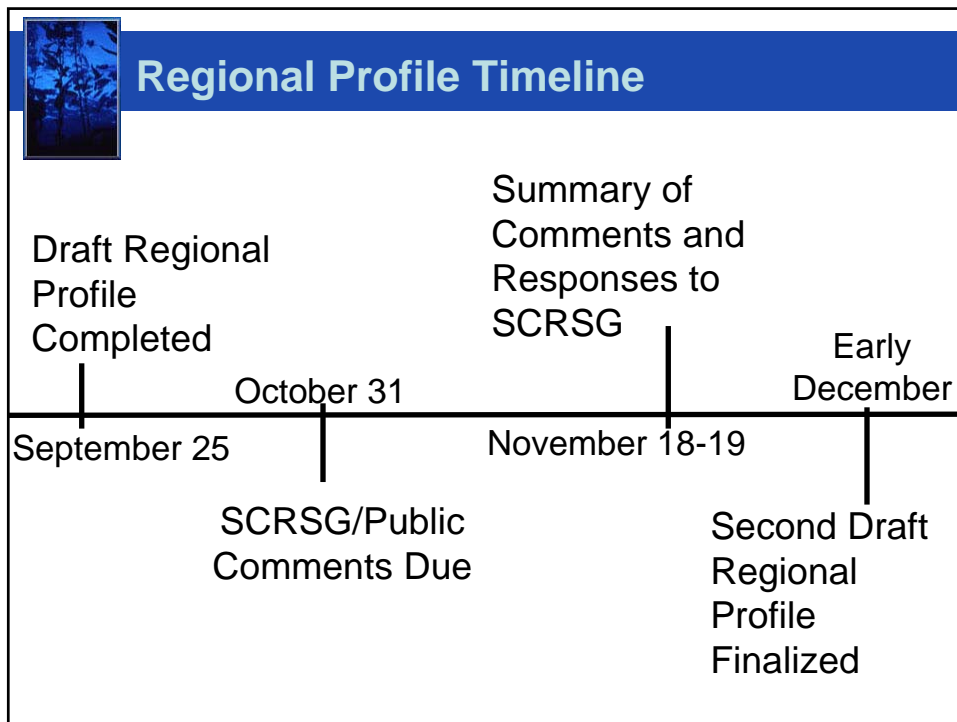
- In past study regions, a SCRSG work group formed to
 - Review the regional profile in detail
 - Discuss potential additions to the regional profile
 - Serve as a sounding board for further additions
 - Coordinate contribution of additional data and information
- Opportunity to form work group at SCRSG meeting #2



Joint Fact-Finding Process

Future joint fact-finding

- Science presentations to the SCRSG
- Opportunity to ask questions and share information
- To begin at next SCRSG meeting



Regional Profile Comments

MLPA Initiative planning staff will be tracking SCRSG, science advisory team and public comments:

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Initial comments or questions?